



Test Report

Date : 2025-05-06
No. : DP25042142

Page 1 of 13

Applicant(Code:08319964) : Shenzhen Hongrun New Material Technology Co., Ltd
2nd Floor, Building 8, Beiguang Industrial Park, Egongling, Pinghu
Street, Longgang District, Shenzhen

Description of Sample(s) : Sample(s) received is/ are stated to be:
Plastic wine glasses, plastic red wine glasses, plastic champagne glasses
Manufacturer: Shenzhen Hongrun New Material Technology Co., Ltd
2nd Floor, Building 8, Beiguang Industrial Park, Egongling, Pinghu
Street, Longgang District, Shenzhen

Date Sample(s) Received : 2025-04-22

Date Tested : 2025-04-22 to 2025-04-30

Investigation Requested : Please refer to result summary on next page

Conclusion(s) : Please refer to result summary on next page

Yan Liang, Sky
Authorized Signatory



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Test Report

Date : 2025-05-06
No. : DP25042142

Page 2 of 13

Result Summary:

No.	Test Requested	Conclusion	Remark
1	Sensory test (odour and taste) for materials in contact with foodstuffs - EC No. 1935/2004	PASS	-
2	Overall migration - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
3	Visible colour migration for materials in contact with foodstuffs – Resolution AP (89) 1 on the use of colourants in plastic materials coming into contact with food	N/A	-
4	Specific migration of heavy metals - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
5	Specific migration of acetaldehyde - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
6	Specific migration of glycol - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
7	Specific migration of terephthalic acid - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	PASS	-
8	Specific migration of primary aromatic amines - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	N/A	-
9	Total phthalates content - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245 and (EU) 2023/1442	PASS	-
10	Polycyclic aromatic hydrocarbons (PAHs) content according to AfPS and ProdSG	PASS	-
11	Bisphenol A - EC No. 1935/2004 & EU No.10/2011 on plastic materials and articles intended to come into contact with food and it's amended regulation (EU) 2020/1245	N/A	-

Note(s): - N/A = Not Applicable.

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 3 of 13

RESULT(S):

SENSORY TEST (ODOUR AND TASTE) FOR MATERIALS IN CONTACT WITH FOODSTUFFS - EC NO. 1935/2004

Method Used: DIN 10955:2024 in water at 40°C for 0.5 hour

Sample Identity	Item/ Component Description	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit :	Shall not be greater than 2.5 scale
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Test Item(s)	Result (scale)
	1
Odour	0
Taste in distilled water	0
Conclusion	Pass

Note(s):

- scale 0 = No perception off-odour;
- scale 1 = Off-odour just perceptible (still difficult to define)
- scale 2 = Moderation off-odour;
- scale 3 = Moderately strong off-odour;
- scale 4 = Strong off-odour;

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 4 of 13

OVERALL MIGRATION - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245

Method Used: Ref. EN 1186-1:2002 & EN 1186-2:2022 & EN 1186-3:2022,

- overall migration in 3%(w/v) acetic acid at 40°C for 0.5 hour
- overall migration in 50%(v/v) ethanol at 40°C for 0.5 hour

Sample Identity	Colour / Component	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit	10 mg/dm ² (each food or food simulants) or 60 mg/kg for infants and young children (each food or food simulants)
-------------------------	--

Test Item(s)	Results (mg/dm ²)	Conclusion
	1	
	1 st migration	
Overall migration in 3%(w/v) acetic acid	ND	Pass
Overall migration in 50%(v/v) ethanol	ND	

Note(s):

- Method detected limit:
2.0 mg/dm² for aqueous food simulants
3.0 mg/dm² for fatty foods simulants
- ND = Not Detected
- mg/dm² = milligram per square decimetre

Remark(s):

- # according to the EU 2020/1245, for repeated use materials and articles, the third migration result should be less than 10 mg/dm² and the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 5 of 13

SPECIFIC MIGRATION OF HEAVY METALS - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND (EU) 2020/1245

Method Used: Extracted the sample in 3%(w/v) acetic acid at 40°C for 0.5 hour, analyzed by ICP-MS

Sample Identity	Colour / Component	Style
1	Transparent Plastic (PET)	-

-	Unit	Result	-	MDL
		1		
Test Item(s)	-	1 st Migration	Maximum Allowable Limit	
Aluminium(Al)	mg/kg	ND	1	0.1
Antimony(Sb)	mg/kg	ND	0.04	0.01
Arsenic(As)	mg/kg	ND	ND (LOD 0.01)	0.01
Barium(Ba)	mg/kg	ND	1	0.1
Cadmium(Cd)	mg/kg	ND	ND (LOD0.002)	0.002
Chromium(Cr)	mg/kg	ND	ND (LOD 0.01)*	0.01
Cobalt(Co)	mg/kg	ND	0.05	0.01
Copper(Cu)	mg/kg	ND	5	0.5
Europium (Eu)	mg/kg	ND	0.05#	0.01
Gadolinium (Gd)	mg/kg	ND	0.05#	0.01
Iron(Fe)	mg/kg	ND	48	10
Lanthanum (La)	mg/kg	ND	0.05#	0.01
Lead(Pb)	mg/kg	ND	ND (LOD 0.01)	0.01
Lithium(Li)	mg/kg	ND	0.6	0.01
Manganese(Mn)	mg/kg	ND	0.6	0.01
Mercury(Hg)	mg/kg	ND	ND (LOD 0.01)	0.01
Nickel(Ni)	mg/kg	ND	0.02	0.01
Terbium (Tb)	mg/kg	ND	0.05#	0.01
Zinc(Zn)	mg/kg	ND	5	1
Conclusion	-	Pass	-	-

Note(s):

- ND = Not Detected
- MDL = Method Detected Limit
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark(s):

- *To verify compliance with the Regulation, the detection limit of 0.01 mg/kg shall apply for total chromium. However if the operator that placed the material on the market can prove on the basis of pre-existing documentary evidence that the presence of hexavalent chromium in the material is excluded because it is not used or formed or during the entire production process, a limit for the total chromium of 3.6 mg/kg food shall apply.
- #The sum of all lanthanide substances migrating to the food or food simulant does not exceed the

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 6 of 13

specific migration limit of 0.05 mg/kg;
-## according to the EU 2020/1245, for repeated use materials and articles, the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

SPECIFIC MIGRATION OF ACETALDEHYDE - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245

Method Used: Ref. BS EN13130-1:2004, CEN/TS 13130-27:2005, in 3% acetic acid at 40°C for 0.5 hour, followed by High-performance liquid chromatography

Sample Identity	Colour / Component	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit :	6 mg/kg
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Test Item(s)	Results(mg/kg)
	1
	1 st migration
Migration of Acetaldehyde in 3%(v/v) acetic acid	ND
Conclusion	Pass

Note(s):
- ND = Not Detected
- Method detected limit: 0.5 mg/kg
- mg/kg = milligram per kilogram = ppm = part(s) per million

Remark(s):
- # according to the EU 2020/1245, for repeated use materials and articles, the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 7 of 13

SPECIFIC MIGRATION OF GLYCOL - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245

Method Used: Ref. BS EN13130-1:2004, at 40°C for 0.5 hour, analyzed by Gas Chromatography with Mass Selective Detector

Sample Identity	Colour / Component	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit :	30 mg/kg
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Test Item(s)	Results (mg/kg)
	1
	1 st migration
Migration of glycol in 3%(v/v) acetic acid	ND
Conclusion	Pass

Note(s):
- ND = Not Detected
- mg/kg = milligram per kilogram = ppm = part(s) per million
- Method detected limit : 5mg/kg;

Remark(s): - # according to the EU 2020/1245, for repeated use materials and articles, the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 8 of 13

SPECIFIC MIGRATION OF TEREPHTHALIC ACID - EC NO. 1935/2004 & EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245

Method Used: Ref. BS EN13130-1:2004, at 40°C for 0.5 hour, analyzed by Liquid Chromatograph Mass/Mass Spectrometer measurement

Sample Identity	Colour / Component	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit :	7.5 mg/kg
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Test Item(s)	Results (mg/kg)
	1
	1 st migration
Migration of terephthalic acid in 3%(v/v) acetic acid	ND
Conclusion	Pass

Note(s):
- ND = Not Detected
- mg/kg = milligram per kilogram = ppm = part(s) per million
- Method detected limit : 5mg/kg;

Remark(s): - # according to the EU 2020/1245, for repeated use materials and articles, the material must be stability, the result of 1st migration > 2nd migration > 3rd migration as stability.

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 9 of 13

TOTAL PHTHALATES CONTENT - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND IT'S AMENDED REGULATION (EU) 2020/1245 AND (EU) 2023/1442

Test Method: In-house method, solvent extraction and analyzed by Gas Chromatography with Mass Selective detector

Sample Identity	Item / Component Description	Style
1	Transparent Plastic (PET)	-

Maximum Allowable Limit	DBP <0.05%; BBP < 0.1% ; DEHP< 0.1% ;DINP< 0.1% ;DIDP< 0.1%
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-	Result (%)
Tested Item(s)	1
Tested Parameter	-
Di-n-butyl phthalate (DBP)	ND
Benzyl-n-butyl phthalate (BBP)	ND
Di (2-ethylhexyl) phthalate (DEHP)	ND
Diisononyl phthalate (DINP)	ND
Diisodecyl phthalate (DIDP)	ND
Conclusion	Pass

Note(s):

- ND = Not Detected
- Results reported in percentage %(w/w)
- Method detection limit:
 - DBP = Dibutyl phthalate (CAS No.: 84-74-2): 0.005%
 - BBP = Butyl benzyl phthalate (CAS No.: 85-68-7): 0.005%
 - DEHP = Di (2-ethylhexyl) phthalate (CAS No.: 117-81-7): 0.005%
 - DINP = Di-iso-nonyl phthalate (CAS No.:28553-12-0/68515-48-0): 0.01%
 - DIDP = Di-iso-decyl phthalate (CAS No.: 26761-40-0/ 68515-49-1): 0.01%

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 10 of 13

POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT ACCORDING TO AFPS AND PRODSG

Method Used: AfPS GS 2019:01 PAK, solvent extraction and analyzed by Gas Chromatograph Mass Spectrometer.

Sample Identity	Item/ Component Description	Style
1	Transparent Plastic (PET)	-

Parameter	Category 1(unit:mg/kg)	Category 2(unit:mg/kg)		Category 3(unit:mg/kg)	
	Materials intended to be put in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for used by children up to three years with long-term skin contact (longer than 30 second) under intended use	Materials not covered by category 1, with long-term skin contact (longer than 30 seconds) or repeated short-term skin contact under intended or foreseeable use		Materials not covered by category 1 or 2, with short-term skin contact (up to 30 seconds) under intended or foreseeable use	
		2A: Used by children	2B: Other consumer products	3A: Used by children	3B: Other consumer products
Benzo[a]pyrene,BaP	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-c,d)pyrene	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene	<1	<2		<10	
Phenanthrene Pyrene Anthracene Fluoranthene Sum of 4 PAHs	<1	<5	<10	<20	<50

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Test Report

Date : 2025-05-06
No. : DP25042142

Page 11 of 13

Sum of 15 PAHs	<1	<5	<10	<20	<50
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-	-	Result (mg/ kg)
Tested Item(s)	-	1
Category	-	1
Name of PAHs	CAS No.	-
Phenanthrene	85-01-8	ND
Anthracene	120-12-7	ND
Fluoranthene	206-44-0	ND
Pyrene	129-00-0	ND
Sum of above 4 PAHs	-	ND
Benzo (a) anthracene	56-55-3	ND
Chrysene	218-01-9	ND
Benzo (a) pyrene	50-32-8	ND
Benzo (e) pyrene	192-97-2	ND
Dibenzo (a,h) anthracene	53-70-3	ND
Benzo (b) fluoranthene	205-99-2	ND
Benzo (j) fluoranthene	205-82-3	ND
Benzo (k) fluoranthene	207-08-9	ND
Naphthalene	91-20-3	ND
Indeno (1,2,3-cd) pyrene	193-39-5	ND
Benzo (g,h,i) perylene	191-24-2	ND
Sum of above 15 PAHs	-	ND
Conclusion	-	Pass

Note(s):

- ND = Not Detected
- Method detection limit: 0.2 mg/kg
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- Conc. = Concentration

Test Report

Date : 2025-05-06
No. : DP25042142

Page 12 of 13

PHOTO(S):

Test sample



Reference sample



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Test Report

Date : 2025-05-06
No. : DP25042142

Page 13 of 13



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